

GORFINKEL', V.M.; ZHIKIN, L.V.

Steel smelting for shaped castings. Lit.proizv. no.11:39-40
N '61. (MIRA 14:10)
(Steel—Electrometallurgy)

1100

AUTHOR:
TITLE:

Zhiklenkov, Ye.S., Engineer

Gear cutting machine no. 528 for the hot tooth cutting
of conical gear wheelsS/122/61/000/007/004/007
D209/D304

PERIODICAL: Vestnik mashinostroyeniya, no. 7, 1961, 46 - 48

TEXT: A completely new approach to gear cutting is described. In 1960 two semi-automatic machines were built in the experimental factory of NIITAvtoprom for the hot cutting of teeth of spiral-conical wheels used in the transmission system of automobiles. In special tooth cutting fixtures attached to the machine, the work piece is first machined on semi-automatic lathes and is then cut by a cutting tool. The maximum tooth length is 350 mm and tractors with an apex angle of 60 - 72°, diameters 175 - 350 mm and modulus of 4 - 10 can be cut. The profile formation is achieved by plastic deformation of the material. The maximum tooth length is 20 mm and the output of the machine is 20 to 30 gear wheels per hour. The process consists of the following: The work piece is first machined on semi-automatic lathes and is then cut by a cutting tool.

Card 1/4

APPROVED FOR

S/122/61/000/007/004/007
D209/D304

Gear cutting machine no. 528 ...

then placed on the table of the machine where it is held in the chuck of the "work piece spindle" and is automatically tightened. Electrical surface heating of the work piece takes 55 secs., the maximum temperature being approximately 1250°C. The heater automatically retracts and brings down the spindle of the tooth cutting instrument. This spindle starts to rotate due to the rotation of the work piece spindle by means of two conical synchronizing wheels having radially extended teeth. The elongated teeth of the synchronizers allow the tool to rotate before it starts cutting. The maximum pressure between the two rotating units is 75 tons, exerted by a hydraulic cylinder. Due to the high temperature, pressure movement of the hot metal takes place, filling the spaces between the teeth of the cutter. The movement of the metal along the teeth of the cutter is controlled by an inner and outer flange. Fig. 2 shows the mechanism of the process where it is emphasized that clearance S must be smaller than S_1 since this factor plays an important part in the movement of the hot metal. The cutting of wheels lasts 1.5 mins. To prevent oxidization of the hot metal,

Card 2/4

Gear cutting machine no. 598 ...

S/122/61/000/007/004/007
D209/D304

heating is carried out under a protective layer and a lubricant is used to reduce friction. This process gives a 40 % improvement when using 12X2H4A (12Kh2N4A) alloy steel. During the process a 50 HRC unit hardness oxide film forms on the surface which is removed by subsequent heat treatment. The average deviation in pitch due to eccentricity is 0.5 mm. This is accurate enough for tractor applications, but further machining is required for use in automobile manufacture. The author concludes that gears cut by this method show an improvement in durability as opposed to conventionally cut gears. The only disadvantage of the machine appears to be its heavy construction which leads of profile deformation. There are 3 figures.

Card 3/4

ZHIKOV, V.V.

Abstract equations with almost periodical coefficients. Dokl. AN
SSSR 153 no.3 p.555-558 Jl '65. (MIRA 18:7)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova. Sub-
mitted January 15, 1965.

L-19198-63

EWP(j)/EWP(q)/EWT(m)/BDS AFFTC/ASD/ESD-3 Pe-l₁/Pq-l₁ RM/WH/

MAY

ACCESSION NR: AR3004196

8/0278/63/000/008/B151/B152

71

SOURCE: RZh. Tekhnologiya mashinostroyeniya, Abs. 5B675

AUTHOR: Zhikova, V. P., Svetlov, V. A., Smirnov, N. S.

TITLE: Determination of mechanical strength of enamel coating on the inner surface of pipes

CITED SOURCE: Tr. Ural'skogo n.-i. in-ta chern. metallov, v. 1, 1961, 302-303

TOPIC TAGS: mechanical strength, enamel coating, enamel peeling, enamel breaking, liquid contact material

TRANSLATION: A method has been developed for determining the mechanical strength of enamel¹, glass² and other electrically non-conductive coatings of the inner surface of seamless welded steel pipes of various diameters. The mechanical strength of coatings is characterized by the magnitude of loading (applied to the investigated pipe perpendicular to its axis), at which the coating uniformity is affected. The moment of coating violation (peeling or breaking of enamel, etc.) is determined by a measuring device, connected to the electric circuit in series with the vessel. Solution of sodium chloride in the vessel serves as a liquid contact with the

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L 19198-63

ACCESSION NR: AR3004196

metallic pipe material when the coating is damaged. Five simultaneous measurements are required for obtaining results with up to 10% accuracy. L. Kamionskiy.

DATE ACQ: 21Jun63

SUB CODE: IE, MA

ENCL: 00

Card 2/2

ZHIKOVSKIY, A.V., professor (Kiyev)

Soil and vegetation resources of China ("Soils and forests of China; a geographical collection." Reviewed by A.V. Zhukovskii).
Priroda 45 no.6:121-122 Je '56. (MLRA 9:8)
(China--Forests and forestry) (China--Soils)

STRIZH, N.I.; ZHIKREVETSKIY, N.A.

Operation of track circuits in districts with reinforced concrete ties. Avtom., telem. i sviaz' 8 no.10:18-22 O '64.

(MIRA 17:11)

1. Glavnyy inzh. sluzhby signalizatsii i svyazi Severo-Kavkazskoy dorogi (for Strizh). 2. Starshiy inzh. laboratori signalizatsii i svyazi Severo-Kavkazskoy dorogi (for Zhikrevetskiy).

ZHIKREVETSKIY, N.A.

Concerning the "Temporarily effective regulations on
overvoltage protection of centralized traffic control
systems." Avtom., telem. i sviaz' 9 no.12:19-21 D '65.

(MIRA 19:1)

1. Starshiy inzh. laboratorii signalizatsii i svyazi
Severo-Kavkazskoy dorogi.

ZHIKREVETSKIY, N.A., starshiy inzh.

Bataysk railroad district has become an enterprise of communist labor. Avtom., telem. i sviaz' 5 no.6:26-28 Je '61. (MIRA 14:9)

1. Laboratoriya signalizatsii i svyazi Severo-Kavkazskoy dorogi.
(Bataysk—Railroads—Employees)

ZHIKREVETSKIY, N.A., starshiy inzh.

We have corrected the operational faults in the audio signaling devices of switching systems. Avtom., telem. i sviaz' 5 no.10:
40-41 O '61. (MIRA 14:9)

1. Laboratoriya signalizatsii i svyazi Severo-Kavkazskoy
dorogi.
(Railroads—Switching) (Railroads—Signaling)

ZHIKUL, M.F. [Zhykul, M.F.]

Cultivation of medicinal plants. Farmatsev. zhru. 17 no.1:82
'62. (MIRA 15:6)

1. Apteka No.34 s.Pleteniy Tashlik, Kirovgrad's'koi oblasti.
(BOTANY, MEDICAL)

GORYAYEV, M.I.; ZHIKULINA, Ye.B.

Antitumor preparations. Part 1: Synthesis of di-(2-chlorethyl)-amide
2-methyl-4-chlorphenoxyacetic acid and di-(2-chlorethyl)-hydrazide
2-methyl-4-chlorphenoxyacetic acid. Trudy Inst. klin. i ekspl. khir.
AN Kazakh. SSR 6:200-203 '60. (MIRA 13:12)
(ACETIC ACID)

RABAN, V.; VOLOSHINSKIY, V.; ZHILA, A.; ZHADANOVSKIY, D. (Volynskaya oblast')

For large-scale activity in inventing and efficiency promotion.
Fiz. v shkole 20 no. 6:104 N-D '60. (MIRA 14:2)
(Technological innovations)

ZHILA,F.

Finishing surface irregularities by means of hot steel. Avt.transp.
33 no.8:26 Ag'55. (MLRA 8:12)
(Automobiles--Transmission devices)

ZELLA, F. M.= "Turning hot steel." Min Higher Education Ukrainian SSR.
Kiev Order of Lenin Polytechnic Inst. Kiev, 1956. (Dissertations
for the Degree of Candidate in Technical Sciences).

SO: Knizhnavs Letopis' No. 22, 1956

ZHILA, G.V., kand.khim.nauk; PAS'KO, S.P., inzh.; KOTOV, M.P., prof.

Tanning goatskins with tanning extracts manufactured with the use of naphtalene sulphonic acid as reducer. Report No.1. Izv. vys.ucheb.zav.; tekhn.leg.prom. no.3:96-103 '60. (MIRA 13:8)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii kozhi.
(Tanning)

ZHILA, G.V., kand.khim.nauk; KOTOV, M.P., prof.

Effect of the concentration, duration, and temperature during
thermolysis on the changes in specific viscosity of 0,5 o/o gelatin
solution. Izv. vys.ucheb. zav.; tekhn.leg. prom. no.2:21-25 '58.
(MIRA 11:6)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Gelatin--Testing) (Thermal analysis)

KROTKO, V.P., inzh.; ZHILA, G.V., kand.khim.nauk; POLYANICHKO, A.L., student

Increasing the thermal and corrosion stability of TOS thermistors.
Izv.vys.ucheb.zav.; tekhn.leg.prom. no.2:144-146 '61. (MIRA 14:5)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy avtomatizatsii proizvodstvennykh protsessov.
(Thermistors)

ZHILA, G.V., kand. khim. nauk; KOTOV, M.P., prof.

Investigating assymetry changes in gelatin molecules caused by the
action of aqueous solutions of urea. Izv. vys. ucheb.zav.; tekhn.leg.
prom. no.4:14-21 '58. (MIRA 11:12)

1.Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
(Gelatin) (Urea)

ZHILA, G. V.

"Investigation of the effect of certain non-electrolytes on water solutions of gelation when heated." Acad Sci Ukrainian SSR. Inst of General and Inorganic Chemistry. Moscow, 1956.
(Dissertations of the Degree of Candidate in Chemical Sciences).

SO: 'Knizhnaya letopis', No. 16, 1956

ZHILA, L.A. [Zhyla, L.A.]

Thiocyanation of oleic and elaidic acids and their esters. Fratsi
Od. un. zbir. mol. vchen. un. 148 no.3:161-166 '58 (MIRA 13:3)

1. Nauchnyy rukovoditel' - prof. O.K. Plisov.
(Oleic acid) (Elaidic acid)
(Thiocyanation)

AUTHORS:

Plisov, A. K., Zhila, L. A.

SOV/79-29-1-68/74

TITLE:

Structure and Properties of the Unsaturated Acids and Their Derivatives (Konfiguratsiya i svoystva nepredel'nykh kislot i ikh proizvodnykh). X. Thiocyanation of Oleic and Elaidic Acids and Their Esters (X. Rodanirovaniye oleinovoy i elaidinovoy kislot i ikh estirov)

PERIODICAL:

Zhurnal obshchey khimii, 1959, Vol 29, Nr 1, pp 323-328 (USSR)

ABSTRACT:

Based upon the previous finding (Refs 1,2) that oleic and elaidic acid as well as their methyl esters react with different rapidity with thiocyanogen solutions and that the alcohol radicals exercise a different influence upon the reactivity of the cis and trans derivatives of unsaturated acids, the authors decided to solve this problem by a thiocyanation reaction. Apart from this, chemists are also interested in thiocyanation and thiocyanogen compounds as they are used in vulcanization of rubber, in medicine (Ref 3), in dye and insecticide production. For this purpose the following esters were synthesized: methyl-, ethyl-, butyl-, isobutyl-tert-amyl-, n.-hexyl-, benzyl-, phenyl- and α -naphthyl esters of oleic and elaidic acid. The thiocyanation of these compounds was carried out in reagents at

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SOV/79-29-1-68/74
Structure and Properties of the Unsaturated Acids and Their Derivatives.
X. Thiocyanation of Oleic and Elaidic Acids and Their Esters

various temperatures and in various concentrations. The results given in the experimental part give evidence of the fact that in the case of geometrical isomeric esters of the unsaturated acids the cis form thiocyanates more rapidly than the trans form. Apart from this, the influence exercised by the length of the chains and the dimension of the alcohol radical upon the reaction became particularly clear in the thiocyanation. For the purpose of clarifying the chemism of the thiocyanation reaction, the final products formed by the thiocyanation of the methyl esters of oleic and elaidic acid, i.e. dithiocyanogen methyl oleate and dithiocyanogen methyl elaidate were separated and characterized. There are 4 tables and 9 references, 5 of which are Soviet.

ASSOCIATION: Odesskiy institut pishchevoy i kholodil'noy promyshlennosti
(Odessa Institute of Food and Refrigeration Industry)

SUBMITTED: December 4, 1957
Card 2/2

ZHILA, L.A., aspirant

Synthesis and properties of some esters of oleic and elaidic acids.
Trudy OTIPiKhP 9 no.2:115-121 '59. (MIRA 13:9)

1. Kafedra organicheskoy khimii Odesskogo tekhnologicheskogo instituta
pishchevoy i kholodil'noy promyshlennosti.
(Oleic acid) (Elaidic acid)

ZHILA, L.A., aspirant

Isolation and some properties of the thiocyanates of methyl esters
of isomeric oleic acids. Trudy OTIPiKhP 9 no.2:123-125 '59.

(MIRA 13:9)

1. Kafedra organicheskoy khimii Odesskogo tekhnologicheskogo instituta
pishchevoy i kholodil'noy promyshlennosti.
(Thiocyanate) (Oleic acid)

ZHILA, L. A., Candidate Chem Sci (diss) -- "The thiocyanation of oleic and elaidic acids and their esters". Odessa, 1959. 15 pp (Min Higher Educ Ukr SSR, Odessa State U im I. I. Mechnikov), 150 copies (KL, No 24, 1959, 128)

ZHILA, L.A.

Synthesis and properties of some esters of oleic and
elaidic acids. Izv.vys.ucheb.zav.; khim.i khim.tekh 2
no.4:550-552 '59. (MIRA 13:2)

1. Odesskiy tekhnologicheskiy institut pishchevoy i
kholodil'noy promyshlennosti. Kafedra tekhnologii organiche-
skoy khimii.

(Oleic acid) (Elaidic acid)

5 (3)

AUTHOR:

Zhila, L. A.

SOV/153-2-4-15/32

TITLE:

Synthesis and Properties of Several Esters of Oleic and Elaidic Acids

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy. Khimiya i khimicheskaya tekhnologiya, 1959, Vol 2, Nr 4, pp 550 - 552 (USSR)

ABSTRACT:

In connection with the investigation of the effect of alcohol radicals of the cis- and trans-isomeric acids mentioned in the title on the thiocyanation reaction, the author obtained several undescribed esters: n-hexyl oleate, n-hexyl elaidate, tertiary amyl elaidate, phenyl elaidate, α -naphthyl oleate, and α -naphthyl elaidate. Their preparation and their properties are described in special chapters. The method of preparing esters of tertiary alcohols from acid chlorides and an Mg-organic compound was simplified by the authors. There are 8 references, 7 of which are Soviet.

Card 1/2

Synthesis and Properties of Several Esters of Oleic and Sov/153-2-4-15/32
Elaidic Acids

ASSOCIATION: Odesskiy tekhnologicheskiy institut pishchevoy i kholodil'noy
promyshlennosti, Kafedra tekhnologii organicheskoy khimii (Odessa
Technological Institute of Foodstuffs and Refrigeration Industry;
Chair of Technology of Organic Chemistry)

SUBMITTED: June 10, 1958

Card 2/2

PLISOV, A.K.; ZHILA, L.A.

Configuration and properties of unsaturated acids and their derivatives. Part 10: Thiocyanation of oleic and elaidic acids and their esters. Zhur. ob. khim. 29 no.1:323-328 Ja '59.

(MIRA 12:4)

1. Odesskiy institut pishchevoy i kholodil'noy promyshlennosti.
(Elaidic acid) (Oleic acid) (Thiocyanation)

ZHILA, P. V.

Welding

Methods of welding steel constructions. Biul. stroi. tekhn. 9 no. 7, 1952.

Monthly List of Russian Accessions, Library of Congress, August 1952. Unclassified.

SOROKINA, N.S., kand. khimich. nauk, dotsent; BOGDANOV, L.A., inzh.;
ANAN'YEVA, L.A., inzh.; KHARLASHKIN, V.I., inzh.; ZHILA, T.I.,
inzh.; PIVOWAROVA, T.V., inzh.; KOTOV, M.P., prof.

Some problems in the cyanoethylation, carboxylation, alkylation
and acylation of gelatin. Izv. vys. ucheb. zav.; tekhn. leg.
prom. no.3:70-75 '63. (MIRA 16:7)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti.
Rekomendovana kafedroy tekhnologii kozhi.
(Gelatin) (Polymerization)

BILEK, Vatslav, inzhener; BLATNNYI, TStipor, inzhener, doktor; BROZHEK,
Karl, inzhener; DOGNAL, Lyudvig; GLAVACHEK, Frantisek; LGOTSKIY,
Alois, inzhener, doktor; MAKHAT, Frantisek; NAZAL, Yaroslav;
OSVAL'D, Vladimir, inzhener; MUZHICHKA, Moymir, inzhener; SALACH,
Vatslav, inzhener, doktor; TRKAN, Miroslav, inzhener; ZHILA, Vladimír;
SHKOP, Ya., inzhener [translator]; MEDINTSEV, M., inzhener,
[translator]; MASLOVA, Ye.F., redaktor; GOTLIB, E.M., tekhnicheskiy
redaktor.

[Technology of malt and beer] Tekhologija soloda i piva. Avtorskiy
kollektiv Vatslav Bilek i dr. Avtoriz. perevod s cheskogo I.A. Shkopa
i M. Medintseva, Moskva, Pishchepromizdat. Vol. 1. [Malt production]
Proizvodstvo soloda. Translated from the Czech. 1957. 285 p.

(Malt)

(MLRA 10:6)

ZHILA, Ye. S.

ZHILA, Ye. S. -- 1940, Laboratory of General Physiology (Chief: A. D. Slovin)

Subtropical Affiliate of the All-Union Institute of Experimental Medicine.

(Scientific Leader: Professor K. M. Bykov).

SO: CIA, FDD Trans of Table of Contents, *Fiziologicheskiy Zhurnal*, Vol 28, Nos 1-6,
For Official Use Only p3

ZHILA, Ye.S.; ZAMANSKIY, L.N.; LOPUSHANSKIY, A.I.

Distribution and elimination of S^{35} -labeled radioactive penicillin
in rats and rabbits. Vrach.delo no.8:879 Ag '57. (MLRA 10:8)

1. Kafedra biokhimii (zav. - dotsent L.N.Zamanskiy) Chernovitskogo
meditsinskogo instituta
(PENICILLIN)

ZAMANSKIY, L.N.; LOPUSHANSKIY, A.I.; ZHILA, Ye.S.; KAPRALOVA, Ye.V.
(Chernovitsy)

Biochemistry of the stimulation of experimental wound healing.
Ekspер.khir. 4 no.4:56 Jl-Ag '59. (MIRA 12:11)
(WOUND HEALING metabolism)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1

ZHILA, YE.S., ZAMANSKIY, L.N., KAPRALOVA, YE.V., KATS, B.I.,
LOPUSHANSKIY, A.I., SIVER, P.YA., YUKHIMETS, A.D. (USSR)

"Some Data on the Biochemistry of the Enhancement
of Regeneration."

Report presented at the 5th Int'l. Biochemistry Congress,
Moscow, 10-16 Aug 1961

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1"

ZHILA, Yu.S.

Use of a fixating device made from horn in treating pseudarthrosis.
Ortop., travm. i protez. 26 no.8:80-82 Ag '65. (MIRA 18:9)

1. Iz kafedry ortopedii i travmatologii (zav.- chlen-korrespondent AMN SSSR prof. F.R. Bogdanov) Kiyevskogo instituta usovershenstvovaniya vrachey (rektor - dotsent M.N. Umovist). Adres avtora: Kiyev, Tarasovskaya ul., d.9, obshcheshitiye Instituta usovershenstvovaniya vrachey.

ZILBER, G.M., inzh.; BULANZHE, I.N., kand. khim. nauk, dotsent

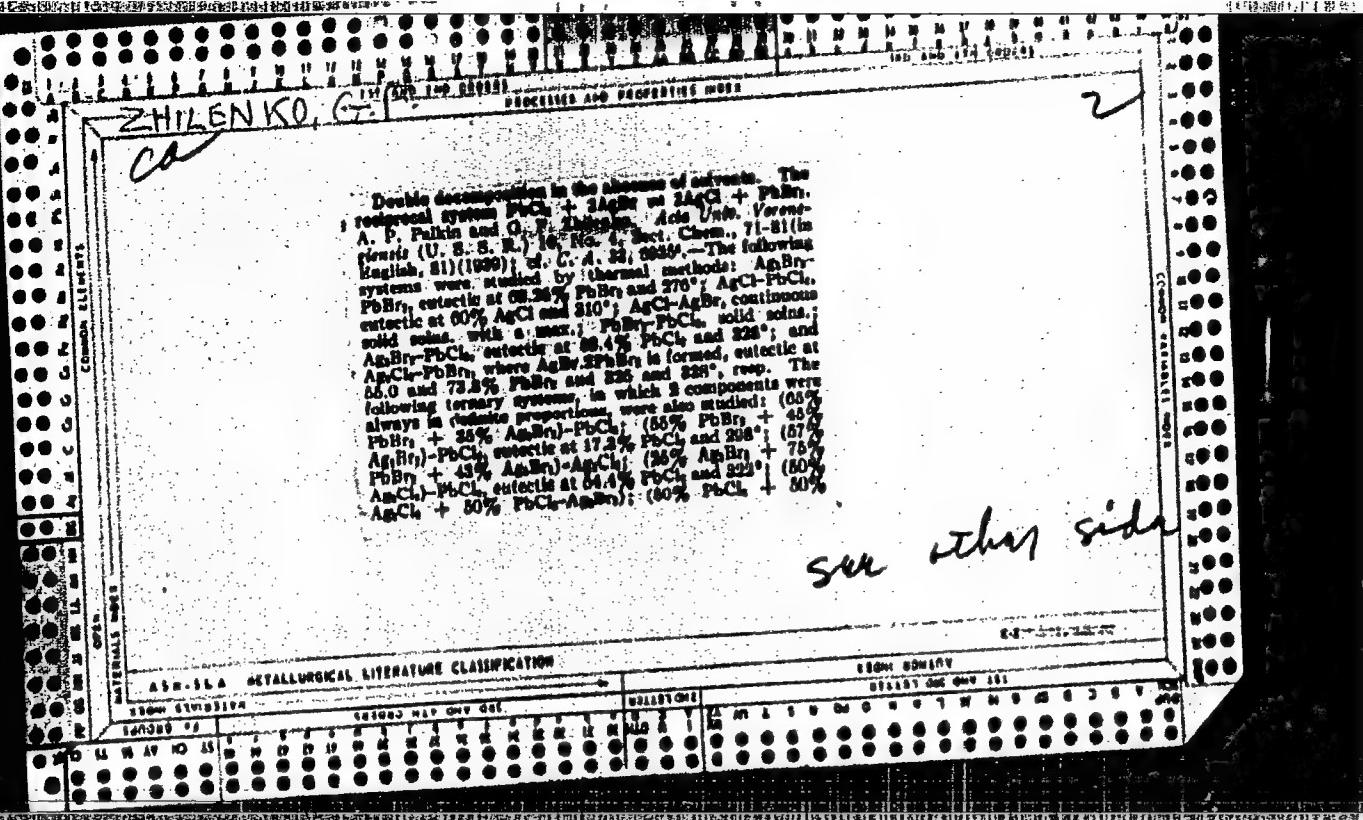
Chemical nickel coating of some machine parts used in light industry. Izv. vys. ucheb. zav.; mashinostr. no.10:209-215 '63. (MIRA 17:3)

1. Kiyevskiy tekhnologicheskiy institut legkoy promyshlennosti
- 1 Kiyevskiy eksperimental'no-mekhanicheskiy zavod.

ZIL'BERSUTEYN, G.D.

Unit for the vitaminizing of flour. Biul.tekh.-ekon.inform.Gos.
nauch.-issl.inst.nauch.i tekhn.inform. no.12:75-76 '63,

(MIRA 17:3)



$\text{PbBr}_3\text{-AgCl}$, eutectic at 47.0% AgCl , and 324°; (50% PbCl_4 + 50% PbBr_3)- AgBr , eutectic at 41.2% AgBr , and 314°; and (90% PbBr_3 + 10% PbCl_4)- AgBr , eutectics at 36.4 and 30.0% AgBr , and 290° and 201°, resp. The diagram for the entire system was constructed from the above data. The system has two main crystal fields: $\text{AgBr} + \text{AgCl}$ and $\text{PbBr}_3 + \text{PbCl}_4$, and small $\text{AgBr}\cdot 3\text{PbBr}_3$ crystal field, which is confusent with the 2nd field. The most stable diagonal in the system is $\text{PbCl}_4\text{-AgCl}$ couple. In general, the equil. of investigated reactions tends to shift to the left, toward a most unstable couple.

A. A. Podzorov

ZHILENKO, G.F.

CA

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Chemical stability of glasses formed in the system
 $\text{Ca}_2\text{O}_3\text{-CaBO}_3$. O. P. Zhdanov (Voronezh State Univ.),
Izv. Sibirsk. Nauch.-Khn. Akad., Inst. Osnabr. i Ravn.
Khimi, Akad. Nauk S.S.R. 14, No. 2, 55-6 (1948).
The phase diagram of the system was correlated with the
chem. resistance of glass made from this system. The
system has 3 eutectics at 900 and 1070° corresponding to
10 and 65 mol. % of CaBO_3 resp., and a max. at 1120° cor-
responding to $\text{Ca}_2\text{O}_3\text{-CaBO}_3$. Four glasses were prepared
having the compon.: (1) Ca_2O_3 , (2) Ca_2O_3 50 and CaBO_3
10 mol. % (1st eutectic), (3) Ca_2O_3 50 and CaBO_3 , 50 mol.
% (max.); and (4) Ca_2O_3 55 and CaBO_3 , 65% (2nd eu-
tectic). The glasses were ground, freed of fines, and the
fraction 0.3-0.75 mm. was used for drying. Ca^{+} , SO_4^{2-}
and BaO were dried in air; after keeping samples for 24
hrs. in dried H_2O with repeat. aspiration. Glass (1) de-
compd. to the extent of 6.00%, glass (2) 11.5%, glass (3)
0.30%, and glass (4) decompt. completely. M. Hoch

ZHILENKO, G.

PROCESSES AND PROPERTIES

Exchange decomposition in the absence of solvent. Investigation of the reciprocal system calcium sulfate + sodium tetraborate \rightleftharpoons calcium tetraborate + sodium sulfate. G. F. Zhilenko and N. I. Sverchkov. *Acta Univ. Voronegensis, Sect. Chem.*, 11, No. 1, 41-50; Khim. Referat., Zhar., 1940, No. 1, 26.—The following compds. were found: $\text{CaSO}_4 \cdot \text{CaB}_4\text{O}_7$, $\text{Na}_2\text{B}_4\text{O}_7 \cdot 2\text{CaSO}_4$, $\text{Na}_2\text{B}_4\text{O}_7 \cdot 2\text{CaB}_4\text{O}_7$ (presumably), $\text{CaSO}_4 \cdot \text{CaB}_4\text{O}_7$ and $\text{CaSO}_4 \cdot 2\text{Na}_2\text{SO}_4$. In the binary system $\text{Na}_2\text{SO}_4 \cdot \text{Na}_2\text{B}_4\text{O}_7$ and $\text{CaSO}_4 \cdot \text{Na}_2\text{B}_4\text{O}_7$ there was observed a sepn. into layers and the solv. boundaries of the components were detd. for the binary systems $\text{Na}_2\text{SO}_4 \cdot \text{Na}_2\text{B}_4\text{O}_7$ and $\text{CaSO}_4 \cdot \text{Na}_2\text{B}_4\text{O}_7$. The stable diagonal $\text{CaSO}_4 \cdot \text{Na}_2\text{B}_4\text{O}_7$ divides the system into 2 triangles, which differ sharply in their properties. The melts of the triangle $\text{CaSO}_4 \cdot \text{Na}_2\text{SO}_4 \cdot \text{Na}_2\text{B}_4\text{O}_7$ are easily crystd. This triangle contains the greatest region of the sepn. into layers. The melts of the triangle $\text{CaSO}_4 \cdot \text{CaB}_4\text{O}_7 \cdot \text{Na}_2\text{B}_4\text{O}_7$ have a tendency to form glasses. W. R. Hearn.

W. R. Hein

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1988-89 1989-90 1990-91

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1"

BERGER, G.S.; ZHILENKO, G.V.

Using infrared spectrometry for the study of collector adsorption on quartz. Izv.vys.ucheb.zav.; tsvet.met. 8 no.2:21-23 '65.

(MIRA 19:1)

1. Kazakhskiy nauchno-issledovatel'skiy institut mineral'nogo syr'ya. Submitted May 12, 1964.

ZHILENKO, R.M., inzhener; SHITSKOV, V.S., inzhener.

The BK-215 self mounting portable crane. Nov.tekh.i pered. sp. v
strel. 18 no.4:14-17 Ap '56. (MIRA 9:7)
(Cranes, derricks, etc.)

L 44771-66 EWT(d)/EWT(m)/EWP(i)/EWP(h)/EWP(l) IJP(s) RM
ACC NR: AP6025683 (A) SOURCE CODE: UR/0413/66/000/013/0149/0149

INVENTOR: Tushnyakov, M. D.; Stepanov, A. I.; Mukhin, Yu. V.; Evgenson, B. M.; Zhilenko, R. M.

ORG: none

TITLE: Rubberized-track assembly for lift truck and similar vehicles.
Class 63, No. 183614 [announced by the Central Design Bureau of the Main Administration for the Mechanization of Construction Work, Main Administration for Assembling and Specialized Construction, USSR (Tsentral'noye konstruktorskoye byuro Glavnoye upravleniye po mekhanizatsii stroitel'nykh rabot Glavnoye montazhnoye spetsial'noye stroitel'stvo SSSR)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 13, 1966, 149

TOPIC TAGS: industrial truck, vehicle component, tracked vehicle

ABSTRACT: An Author Certificate has been issued for a rubberized link of a track-assembly for lift trucks and similar vehicles, consisting of a track with a shoe fastened to it; this is made of a rubber cushion and a rubber plate (see Fig. 1). To increase the life-span of the track chain, the shoe plate is made with rims

Card 1/2

UDC: 629.11.012.558.57

L 44771-66

ACC NR: AP6025683

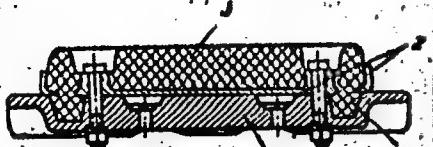


Fig. 1. Track-assembly link

1 - Track; 2 - plate; 3 - rubber cushion; 4 - plug.

enveloping the rubber cushion and is equipped on its internal supporting surface with plugs which enter the appropriate slots in the plate and the track. Orig. art. has: 1 figure. [WH]

SUB CODE: 13/ SUBM DATE: 25Nov64

Card 2/2 ULR

ZHIZNEVSKY T E

Let's guard our bodies of water and preserve our fishes.
Okhr. priro. na Dal'. Vest. no.1:107-111 '63.

1. Dal'nevostochnyy filial imeni Komurova Sitirskogo otdeleniya
AN SSSR. (MIRA 18:7)

OTREMBSKIY, V. [Otrembs'kyi, V.], inzh.; ZHILENKO, V. [Zhilenko, V.], inzh.

Radio control. Znan. ta pratsia no. 11:12 N '60. (MIRA 14:4)
(Automobiles—Models—Radio control)

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1

LA *28*

Spontaneous crystallization in massocultes by means of
crystalline sugar paste. A. I. Yastokov and V. D.
Zil'genko. Sutherland Prem. 22, No. 4, 23-A(1948).
Description and drawings of app. for prepn. and preserv.
ing the paste with a uniform size of the nucleus.

V. R. Balkinov

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1"

ZHILENKO, V.Ye.

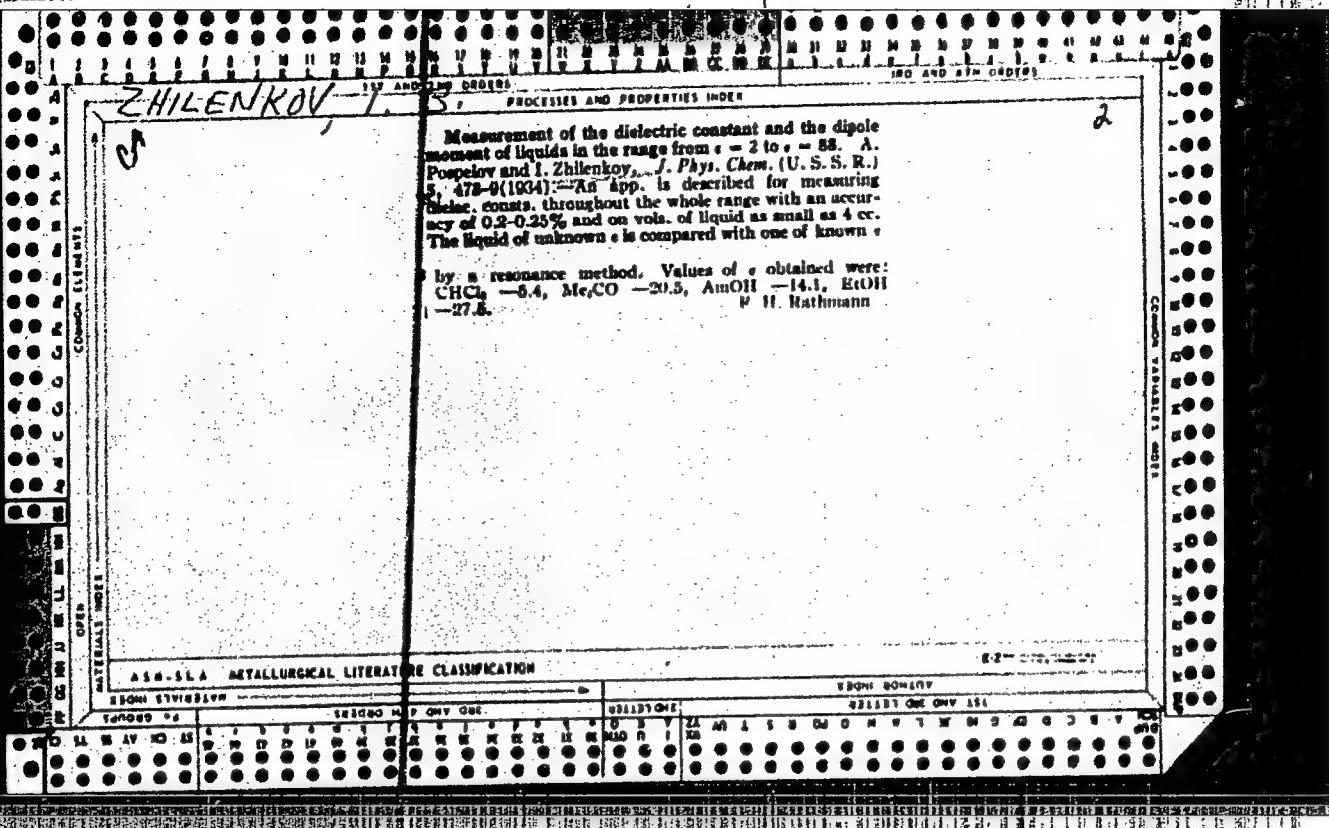
Attachment for trimming technological risers on billets and screws.
Mashinostroenie no.5:34 S-0 '63. (MIRA 16:12)

SOPKO, P.F.; BELYAYEV, V.I.; ZHILENKO, G.V.

Some data on magmatic rocks of basic and ultrabasic composition in the southern part of Voronezh Province and their metallogenetic significance. Dokl. AN SSSR 136 no.2:437-440 '61. (MIRA 14:1)

1. Voronezhskaya kompleksnaya geologorazvedochnaya ekspeditsiya i Voronezhskiy gosudarstvennyy universitet. Predstavлено akademikom D.S. Korzhinskim.

(Voronezh Province—Rocks, Igneous)



ZHILENKOVA

On the Measurement of the Dielectric Constant and Absorption by the Method of the Nernst Bridge Over a Wide Range of Frequencies. I. Zhilenko. Journal of Experimental and Theoretical Physics (U.S.S.R.), 16, no. 9, 1946, p. 770-775. (In Russian.)

Experimental and Theoretical
16, no. 9, 1946, p. 770-778. (In Russian.)
Deals with errors in measurement of dielectric
constant and absorption by the method of dielectric
Nernst bridge, over a wide range of frequencies.
Analytical solution shows the significance of the
fact that the active and reactive components of the
liquid condenser's complex resistance are
spatially united, and that in the measuring system
there is between them a conductor with a definite
self-inductance. Results indicate possibility of er-
rors of several per cent in determination of di-
electric constant of an electrolyte with a compara-
tively high conductivity by the relative method.

33

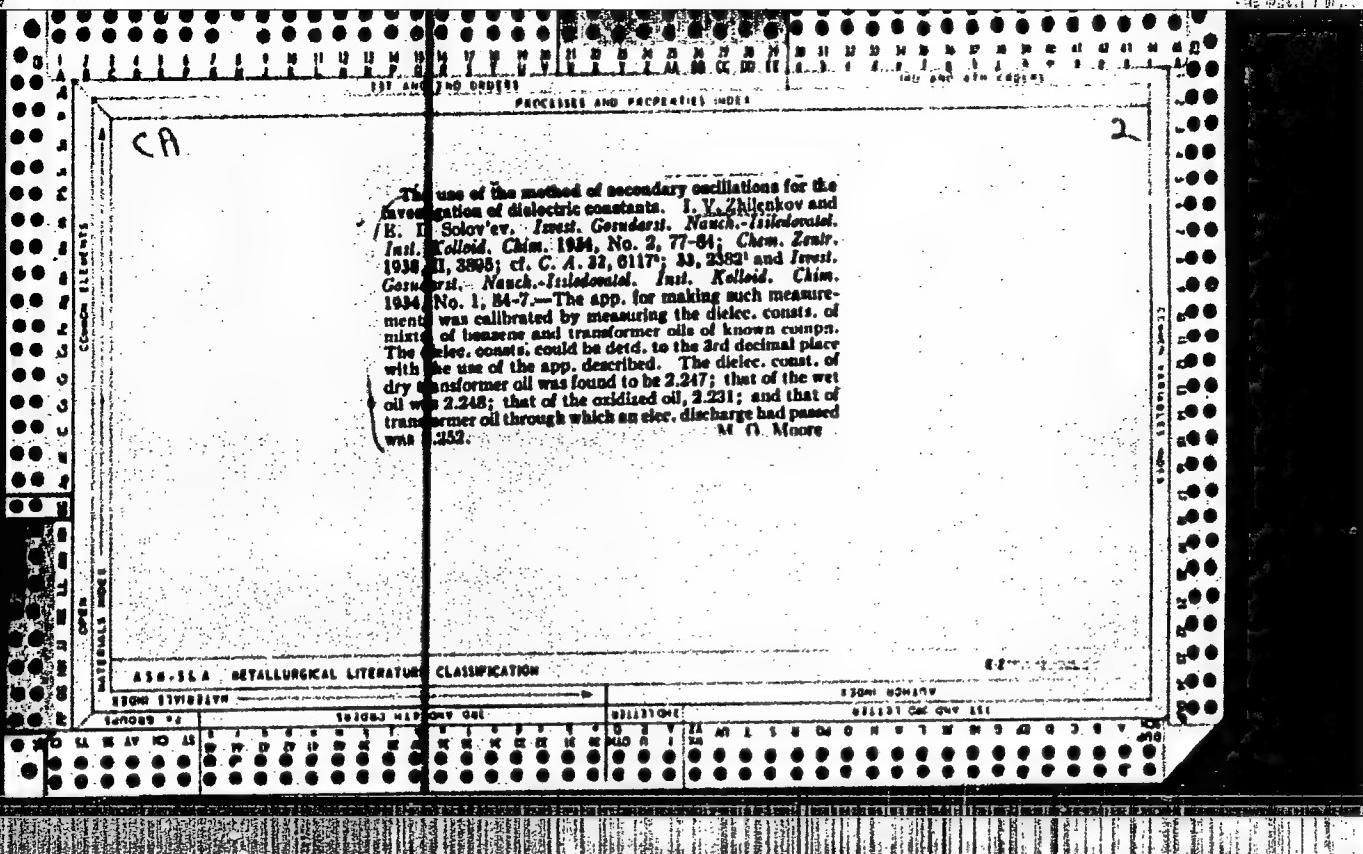
1531 Physics Lab Voronezh Agric Inst
METALLURGICAL LITERATURE CLASSIFICATION

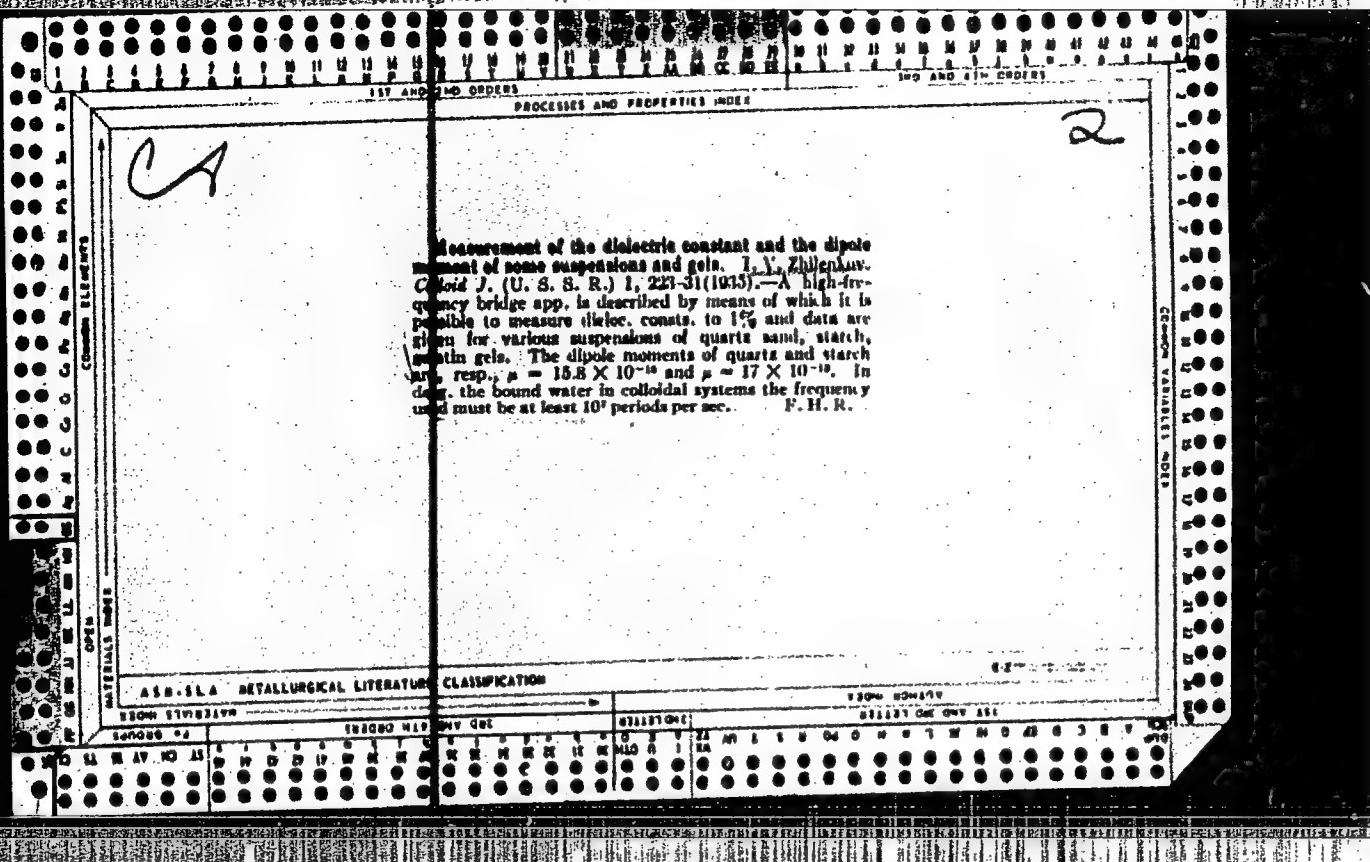
APPROVED FOR RELEASE: 07/19/2001

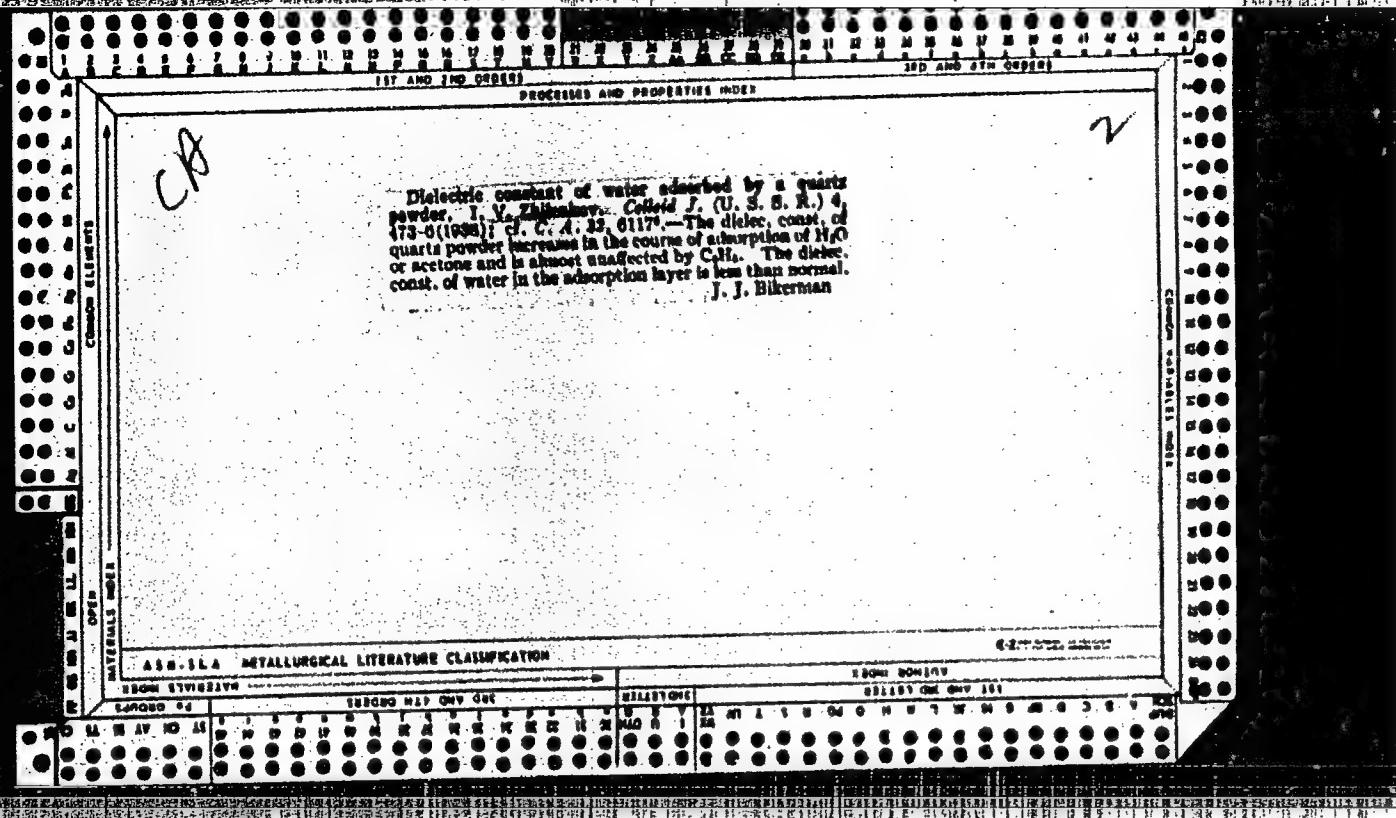
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"APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810009-1"

APPROVED FOR RELEASE: 07/19/2001 CIA-RDP86-00513R002064810009-1"







189740

USSR/Electronics - Dielectrics

JUL 51

"Influence of Reactance in Quarter-Wave Lecher System on Measurement of Dielectric Constant,"
I. V. Zhilenkov, A. N. Yefremov, Voronezh Agr Inst
"Zhur Ekspер i Teoret fiz" Vol XI, No 7, pp 839-
844

Stated quarter-wave Lecher system for effects of
inductance of condenser leads, bending of leads
size, or measurement of capacitance and dielec-
const. Authors consider most suitable a 3-plate

1c

189740

USSR/Electronics - Dielectrics (Contd)

JUL 51

condenser whose inlets are directly connected into
leads of Lecher system. Authors were assisted in
laboratory work by N. G. Vorotnikova, student at
Voronezh U. Submitted 26 Jun 50.

1c

189740

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1

APPROVED FOR RELEASE: 07/19/2001

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"APPROVED FOR RELEASE: 07/19/2001

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CIA-RDP86-00513R002064810009-1

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1"

ZHILENKOV, I. V.

Burak, I.N. and I.V. Zhilenkov. [Institut fizicheskoy khimii AN SSSR, Voronezhskiy sel'skokhozyaystvennyy institut, Voronezhskiy universitet (Institute of Physical Chemistry of AS USSR and Voronezh Agricultural Institute, Voronezh University)] On the Complex Dielectric Constant of Heterogeneous Systems in Connection With Several Problems of Physical Chemistry

(The Physics of Dielectrics; Transactions of the All-Union Conference on the Physics of Dielectrics) Moscow, Izd-vo AN SSSR, 1958. 245 p. 2,000 copies printed.

This volume publishes reports presented at the All-Union Conference on the Physics of Dielectrics, held in Dnepropetrovsk in August 1956 sponsored by the "Physics of Dielectrics" laboratory of the Fizicheskiy institut izmen. laboratoriya AN SSSR (Physics Institute imeni Lebedeva of the AS USSR), and the Electrophysics Department of the Dnepropetrovskiy gosudarstvennyy universitet (Dnepropetrovsk State University).

L 26553-66 EW(m)/T

ACC NR: AP6017357

SOURCE CODE: UR/0062/66/000/003/0393/0398

AUTHOR: Glazun, E. A.; Fedorov, V. M.; Dubinin, M. M.; Zhilenkov, I. V.

ORG: Voronezh Agricultural Institute (Voronezhskiy sel'skokhozyaystvennyy institut);
Institute of Physical Chemistry, AN SSSR (Institut fizicheskoy khimii AN SSSR)

TITLE: Investigation of the dielectric properties of water absorbed by zeolites.
Report 2. Low-temperature relaxation in the crystalline system, NaA zeolite-water
with low fillings

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 3, 1966, 393-398

TOPIC TAGS: zeolite, dielectric property

ABSTRACT: The dielectric behavior of NaA zeolite crystals with low water fillings was studied at frequencies of 10^5 - 10^7 cps in the 90-250°K range. Two relaxation processes are observable. One of them corresponds to relaxers which are present in the dehydrated zeolite, and is suppressed with an increase in the content of adsorbed water. The other process is apparently associated with the relaxation of the adsorbed water molecules themselves. An attempt was made, based on dielectric measurements, to estimate the number of the most active sites in the zeolite. The authors thank Ya. V. Mirskiy for presenting the zeolite specimen for study. Orig. art. has: 5 figures. [JPRS]

SUB CODE: 20, 07 / SUBM DATE: 05Nov63 / ORIG REF: 006 / OTH REF: 004

Card 1/1 C

UDC: 541.183+541.67

ACC NR: AP7006025

SOURCE CODE: UR/0062/66/000/007/1129/1135

AUTHOR: Fedorov, V. M.; Glazun, B. A.; Dubinin, M. M.; Zhilenkov, I. V.

ORG: Voronezh Agricultural Institute (Voronezhskiy sel'skokhozyaystvennyy institut);
Institute of Physical Chemistry, AN SSSR (Institut fizicheskoy khimii AN SSSR)

TITLE: Investigation of the dielectric properties of water adsorbed by zeolites.
Communication 3. Dielectric losses in the system NaA zeolite crystal — water at
average degrees of filling

SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 7, 1966, 1129-1135

TOPIC TAGS: zeolite, adsorption, dielectric property, dielectric permeability

ABSTRACT: New results of an investigation of NaA zeolite with a water content of 40% of the maximum adsorbable amount are discussed. Construction of the dielectric isotherm (dependence of the static dielectric permeability on the value of the adsorption at constant temperature) and a study of the variation of the parameter 1 - alpha, characterizing the distribution of energies of the active centers, permitted conclusions on the finer subdivision of the active centers determining the relaxation of adsorbed water molecules. Dielectric losses at low frequencies were found to occur in the temperature region from -40 to +20° in NaA zeolite containing water. The dielectric adsorption isotherm had a break at a water content in the zeolite

Card 1/2

UDC: 541.183 + 546.67 + 621.317.33

09270809

ACC NR: AP7006025

corresponding to approximately five to seven molecules per unit cell, evidently due to the structuration of water with increasing adsorption and to the different sorbability on sodium ions bonded to eight-membered and six-membered oxygen rings. A distribution of relaxation times was observed in the region of losses considered, probably due to the energetic heterogeneity of the active centers. The region of distribution became narrower with increasing water content, which indicates development of the structure. The activation energy and entropy of activation for polarization in an electric field increased with increasing water content of over 5%. Measurements of the free energy of formation, together with the break on the dielectric adsorption isotherm indicated that there is a sharp change in the dielectric properties of the adsorbed water at a degree of filling of 20%. The zeolites NaA-I and NaA-II possessed different values of the dielectric permeability eta at identical temperatures and degrees of filling, which is evidently due to differences in the mode of their manufacture. In spite of these differences, the same patterns were observed in both samples. The authors thank Ya. V. Mirskiy and B. A. Lipkind for providing zeolite samples for analysis. Orig. art. has: 3 figures, 3 formulas and 1 table. [JPRS: 38, 967]

SUB CODE: 07, 20 / SUBM DATE: 26Feb64 / ORIG REF: 008 / OTH REF: 008

Card 2/2

ZHILENKOV, I.V.

PAGE 1 ROW TERMINATION 207/379

Vorozhnye kharakterystiki po sluchaju dielektrikov. 2d. 1959

Filial dielektrikov, trudy Vsesoyuznoy konferentsii "Physika dielektrikov" [Transactions of the 2d All-Union Conference on the Physics of Dielectrics]

Moscow, Izd-vo Akad. Nauk SSSR, 1960. 524 p. Prints ali phizichesk.

Spanshing Sovet. Akademiya Nauk SSSR. Fizicheskiy institut im P.M. Lutsheva.

Ed. of Publishing house: T.O. Moshchukova [ed.] G.I. Sauer, Doctor of Physics and Mathematics.

[edit. Soveti] [sharp. Ed.] G.I. Sauer, Doctor of Physics and Mathematics.

[Deverbal], and E.V. Philippov, Candidate of Physics and Mathematics.

PURPOSE. This collection of reports is intended for scientists investigating

the physics of dielectrics

CONFERENCE. The Second All-Union Conference on the Physics of Dielectrics held in Moscow at the Physico-Chemical Institute named P.M. Lutsheva [by executive board Pres. Academy of Sciences USSR] in November 1958 was attended by representatives of the principal scientific centers most of the time and of several other countries. The collection contains most of the reports presented at the conference and summaries of the discussions which followed. The works in this collection deal with dielectric properties, losses, and polarization, and with specific indicative aspects of various empirical, theoretical, and numerical methods. Photoelectric, ferroelectric effects, and various nonlinearities and correlations of other properties on dielectrics are investigated. The volume contains a list of other papers presented at the conference dealing with polarization, ionization, absorption of dielectrics, which were published in the journal "Izv. Akad. Nauk SSSR, seriya fizicheskaya," No. 1 and 2, 1960. No personnel are mentioned. References assume our usual report.

REFERENCES. I.V. Lutshev, and I.D. Dzhidzhe. Temperature Dependence

of Certain Dielectrics

Platon, I.S. Specific Induction Capacitance and Dielectric Losses of Some Dielectric Materials in Strong High-Frequency Electric Fields at High Temperatures [Abstracts of Scientific-Technical Conference "Problems of High-Frequency Physics and Technical Electronics" (Sofia, Bulgaria, 1960). Tomsk (Russian Physics and Technical Scientific Research Institute, Tomsk)]

DISCUSSION

Zubchenko, I.I. On the Problem of the Dielectric Specific Induction Capacitance [Abstracts of Scientific-Technical Conference "Problems of High-Frequency Physics and Technical Electronics" (Sofia, Bulgaria, 1960). Tomsk (Russian Physics and Technical Scientific Research Institute, Tomsk)]

Arshagul'stchina, E.P. Dielectric Parameters of Double Liquid Systems in the Terrestrial Magnetic Field [Abstracts of Scientific-Technical Conference "Problems of High-Frequency Physics and Technical Electronics" (Sofia, Bulgaria, 1960). Tomsk (Russian Physics and Technical Scientific Research Institute, Tomsk)]

Kol'tsov, A.A. Dielectric Properties Observed in Some Dielectrics at Audio Frequencies [Abstracts of Scientific-Technical Conference "Problems of High-Frequency Physics and Technical Electronics" (Sofia, Bulgaria, 1960). Tomsk (Russian Physics and Technical Scientific Research Institute, Tomsk)]

Karmen, T.M., and V.I. Lutshev. Dielectric Properties of Heterogeneous Dielectrics at High-Frequency Frequencies

DISCUSSION

Mishchenko, G.P., and I.M. Lebedev. Study of σ and ϵ_0 in Polymers as a Function of Temperature at Superhigh Frequencies [Institute of High Molecular Compounds, AS USSR, Leningrad]Bogolyubov, S.M. Dielectric Characteristics (ϵ and ϵ_0) of Insulated Cables in Relation to the Properties of the Components (Paper and Oil) [Abstracts of Scientific-Technical Conference "Problems of High-Frequency Physics and Technical Electronics" (Sofia, Bulgaria, 1960). Tomsk (Russian Physics and Technical Scientific Research Institute, Tomsk)]

Bogolyubov, S.M. Problems of the Dynamic Theory of Thermal Processes in Dielectrics. 2nd. 1959

Karmen, T.M., V.A. Kramarenko, V.I. Gerasimov, and V.V. Kargin. On the Properties of Dielectrics in an Electric Field [Institute of High Molecular Compounds, Academy of Sciences USSR, Leningrad]

Bogolyubov, S.M., and V.M. Fedotova. Photoelectrets and the Electrophotographic Recording of Polarized Light [Abstracts of Scientific-Technical Conference "Problems of High-Frequency Physics and Technical Electronics" (Sofia, Bulgaria, 1960). Tomsk (Russian Physics and Technical Scientific Research Institute, Tomsk)]

Bogolyubov, S.M., and V.M. Fedotova. Dielectric Properties of Special Insulators Capable of Generating Polarized Light [Abstracts of Scientific-Technical Conference "Problems of High-Frequency Physics and Technical Electronics" (Sofia, Bulgaria, 1960). Tomsk (Russian Physics and Technical Scientific Research Institute, Tomsk)]

REFERENCES. [Institut metallofizika SSSR, Moscow] [Institute of Crystallography, Academy of Sciences USSR, Moscow] 150

Gorbunov, A.M., and V.P. Sosulin. On Charge Stability of Inorganic Electrolytes

[Institut metallofizika SSSR, Moscow] 152

REFERENCES. [Institut metallofizika SSSR, Moscow] 153

68182

SOV/58-59-5-10838

5.4600

Translation from: Referativnyy Zhurnal Fizika, 1959, Nr 5, p 133 (USSR)

AUTHORS:

Burak, I.N., Zhilenkov, I.V.

TITLE:

On the Complex Dielectric Constant of Heterogeneous Systems in Relation
to Some Problems of Physical Chemistry

PERIODICAL:

V sb.: Fiz. dielektrikov. Moscow, AS USSR, 1958, pp 118 - 123

ABSTRACT:

The authors studied the frequency dependence of the real (ϵ') and imaginary (ϵ'') parts of the dielectric constants of S1200-1 and K-2 silica gels in the region of radio and audio frequencies at positive and negative temperatures and in the case of varying quantities of adsorbed water. In the region of audio frequencies ϵ'' goes through a relaxation maximum in both silica gels. Moreover, in the case of K-2, in which phenomena due to conduction are more weakly expressed, a second maximum was observed in the region of radio frequencies. With a rise in temperature the maxima of ϵ'' shift toward the higher frequencies. No essential changes take place in the dielectric properties of the system when it passes through 0°C. The relaxation in the region of radio frequencies, which is accompanied by a drop in ϵ'' approximately

Card 1/2

68182

SOV/58-59-5-10838

On the Complex Dielectric Constant of Heterogeneous Systems in Relation to Some Problems of Physical Chemistry

down to the optical value, is apparently connected with the molecular relaxation of the adsorbed water. On increasing the adsorption of water the HF-maximum shifts slightly toward the lower frequencies; this testifies to the influence of the structure of a heterogeneous "adsorbent-adsorbate" system on the molecular relaxation of the adsorbed substance. The authors derived and analyzed expressions for the ϵ' of the following two-component systems: a mixture of grains, plates in a matrix, pellets in a matrix, and limiting Wiener forms. It was found that the distorting influence of the structure of a heterogeneous system is weakest in the case of a mixture of grains and plates in a matrix. The Kole and Kole (russ. spell.) curve for a silica gel with adsorbed water extends considerably farther than it should as a mere consequence of the system's heterogeneity. So one may conclude that the molecules of an adsorbed substance possess a wider array of time constants than those of a substance in the normal state. (In-t fiz. khimii AS USSR, S.-kh. in-t, Voronezh).

V. Lozovskiy

Card 2/2

BURAK, I.N.; ZHILENKOV, I.V.

Complex permittivity of inhomogeneous dielectrics. Izv.vys.ucheb.
zav.; fiz. no.6:106-113 '59. (MIRA 12:4)

1. Voronezhskiy sel'skokhozyaystvennyy institut.
(Dielectrics)

SOV/139-58-6-17/29

AUTHORS: Burak, I.N. and Zhilenkov, I.V.

TITLE: Complex Dielectric Permittivity of Inhomogeneous Dielectrics (Kompleksnaya dielektricheskaya pronitsayemost' neodnorodnykh dielektrikov)

PERIODICAL: Izvestiya Vysshikh Uchebnykh Zavedeniy, Fizika, 1958, Nr 6, pp 106-113 (USSR)

ABSTRACT: The authors derive expressions for complex permittivity ($\bar{\epsilon} = \epsilon' - i\epsilon''$) of two-phase heterogeneous systems, assuming that one of the components is lossy (Debye-type dispersion) and the other (the matrix) is a perfect dielectric. The authors deal first with dielectrics consisting of two parallel layers and as a concrete example a double layer of ice (at -30°C) and quartz is discussed. It is found that the Debye maximum frequency of the ice-quartz system is displaced depending on the structure of the system and the relative amounts of the two components. The major portion of the paper deals with two-phase systems consisting of (a) spheres in a matrix, (b) platelets in a matrix and (c) an assembly of grains of random form. Bruggeman's (Ref 4) and Böttcher's (Ref 5) formulae are used to show

Card 1/2

SOV/139-58-6-17/29

Complex Dielectric Permittivity of Inhomogeneous Dielectrics

that ϵ' and ϵ'' of heterogeneous two-phase systems lie between the limiting Wiener (Ref 3) values for a two-layer dielectric. [The paper is entirely theoretical.] There are 4 figures and 8 references of which 4 are English and 4 German.

ASSOCIATION: Voronezhskiy Sel'skokhozyaystvennyy Institut
(Voronezh Agricultural Institute)

SUBMITTED: 6th January 1958

Card 2/2

"APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1

CHELISHCHEV, B.A., inzh.; ZHILENKOV, N.N., inzh.

Technological process and the rotor line in the production
of sleeve nuts. [Nauch. trudy] ENIKMASH 8:100-118 '64.
(MIRA 18:3)

APPROVED FOR RELEASE: 07/19/2001

CIA-RDP86-00513R002064810009-1"

GOL'DIN, A.L., red.; ZHILENKOV, V.N., red.; IZMAYLOVA, R.A., red.;
KRAYEV, G.A., red.; KRIVCHEVSKIY, I.Ye., red.; KYAKK, V.A.,
red.; SOKOLOV, I.B., red.; SUDAKOV, V.B., red.; FOMIN, G.D.,
red.; SHUL'MAN, S.G., red.; ABRAMSON, L.S., tekhn. red.

[Collection of reports on hydraulic engineering; the third
engineering conference of young scientists] Sbornik dokladov
po gidrotekhnike; tret'ia nauchno-tehnicheskaya konferentsiya
molodykh nauchnykh rabotnikov. Moskva, Gosenergoizdat, 1961.
(MIRA 17:2)
183 p.

1. Leningrad. Nauchno-issledovatel'skiy institut gidrotekhniki.

ZHILENKOV, V.N., inzh.

Some capillarity problems in concrete. Izv.VNIIG 64:257-262 '60.
(MIRA 14:5)
(Capillarity) (Concrete)

ZHILENKOV, V.N.

Determining the capillary pressure of water in concrete. Inzh.-fiz. zhur. 5 no.12:96-99 D '62. (MIRA 16:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut gidrotekhniki imeni B.Ye.Vedeneyeva, Leningrad.
(Capillarity) (Concrete—Testing)

ZHILENKOV, V.N.

Determination of interstitial pressure in a media with low
permeability. Sbor. dokl. po gidr. VINITG no.4:247-253 '62.
(MIRA 18:7)

ZHIL'EMYOV, V.P., inche.

Initial pressure gradient of water percolation through concrete.
Izv. VNIIG 76:191-195 '64.

Experimental method of determining the permeability of concrete.
Ibid.:197-204 (MIRA 18:10)

ZHILEVICH, I., inzhener (g.Vil'nyus).

Are we not on the eve of radical changes in photography and printing? Tekh.mol. 24 no.11:12-13 N '56. (MLRA 9:12)
(Photography--Research) (Printing--Research)

ZHILEVICH, I., inzhener (g.Vil'nyus).

Pictures drawn by means of magnetic powder. Tekh.mol. 24 no.11:
13-15 N '56. (MLRA 9:12)
(Printing machinery and supply)

ZHILEVICH, I. I.

I. I. Zhilevich, "A Device for the Reception of Phototelegraph Images with the Aid of Ferromagnetic Particles."

Authors' Certificates, Elektrosvyaz!, 1958, No. 7, pp 77.

ZHILEVICH, Ivan Iosifovich; NEMIROVSKIY, Ye.L.; IOFIS, Ye.A., kand.
tekhn. nauk, red.; PANFILOV, N.D., red.; TUMANOVSKIY, R.F.,
tekhn. red.

[Electrophotography] Elektrofotografiia. Pod red.E.A.Iofisa.
Moskva, Gos. izd-vo "Iskusstvo," 1961. 125 p. (Biblioteka fo-
toliubitelia, no.24) (MIRA 15:3)
(Xerography)

33516

S/619/61/000/019/006/019
D039/D112

3.9300 (019,1327)

AUTHORS: Borisevich, Ye.S.; Zhilevich, I.I.; Aronov, L.Ye., Arshvila, S.V.;
Zabelin, M.V.

TITLE: The SEO-I seismic electrographic oscillograph

SOURCE: Akademiya nauk SSSR. Institut fiziki Zemli. Trudy, no.19 (186).
Moscow, 1961, Seismicheskiye pribory, 44-51

TEXT: The authors describe the SEO-I (SEO-I) seismic electrographic oscillograph for automatically recording seismic processes. It does not use the helical-line recording method with its intersecting recording lines, but produces a clear recording of the seismic process and the immediately preceding period (by means of a memory) only. The recording is suitable for both visual analysis and automatic mechanical processing, the principles of which are now being developed. The device can be used at either permanent or mobile seismic stations. Its mode of operation is as follows: Light from a luminaire is reflected back by a mirror on to the windows of three galvanometers, is reflected back by a small mirror attached to the measuring system of the galvanometer on to the first mirror, and reflected

Card 1/3

33516

S/619/61/000/019/006/019

D039/D112

The SEO-I seismic

and its current consumption does not exceed 1 a; Its dimensions are 255 x 240 x 660 mm, and its weight 29 kgf. Its optical, kinetic and electrical systems are described and illustrated. It was designed by Ye.S. Borisevich and I.I. Zhilevich (Author's Certificate no. 126426); besides, the authors of this article, designers B.N. Pevzner and M.K. Dubrovina and team-leader-mechanic F.F. Lenkov took part in its construction. There are 5 figures and 7 Soviet-bloc references.

Card 3/3

ZHILEVICH, I.I., red.; KANOVICH, N., red.; ABROMAYTENE, G.
[Abromaitiene, G.], red.; LABKAUSKAS, S., red.;
URBONAS, A., tekhn. red.

[Electrophotography and magnetography; transactions of the
Scientific and Technical Conference on Problems of Electro-
graphy held in Vilnius on December 16-19, 1958] Elektrofoto-
tografiia i magnitografiia; trudy. Pod red. I.I.Zhilevicha.
Vil'nius, Respublikanskii in-t nauchno-tekhn. informatsii i
propagandy, 1959. 380 p. (MIRA 17:3)

1. Nauchno-tehnicheskaya konferentsiya po voprosam elektro-
grafii, Vil'na, 1958. 2. Nauchno-issledovatel'skiy institut
elektrografii, Vil'nius (for Zhilevich).

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ZHILEYKIN, Ya.M. (Moskva)

Approximate method of solution of the Dirichlet problem for a
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ZHILEYKIN, Ya.M.

Approximate solution of the Dirichlet problem for Laplace's
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ABSTRACT: The author discussed the approximate solution of the Fredholm integral equation of the second type $u(P) = \lambda \int_G K(P, Q) u(Q) dQ + f(P)$.⁽¹⁾

where $f(P) = f(x_1, \dots, x_s) \in E_s(C)$ and where $K(P, Q)$ is a periodic function of all variables with unit period, smooth for all $P \in G^s$ (except for $Q = P$) where the function is of the type $\|f\|_{pq}^{1/p, 2-q/s}$. G^s is an arbitrary strictly internal subset of G , $[0 < x_i < 1, i = 1, 2, \dots, s]$ — the s-dimensional unit cube with border Γ . Assuming that the algorithm of computing any iteration of $K(P, Q)$ is known, the author

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proposes and proves three lemmas and one theorem: Lemma 1: The iteration $K_n(P, Q)$, as a function of any s variables, belongs to the class $E_s^\infty(M^n n)$ where $\alpha < n(\delta + s)/2s$ and M - constant, independent of n . Lemma 2: If in the complex plane z on the circumference $|z| = |\lambda|$ there is no one special point resolving relationship (1) above, then for any natural l and n , the function

$$\varphi(P) = u(P) - f(P) - \sum_{i=1}^l \int_{D_0} K_i(P, Q) f(Q) dQ \quad (2)$$

is a solution of the integral relationship $\varphi(P) = \lambda^n \int_{D_0} K_n(P, Q) \varphi(Q) dQ + f_l(P), \quad (3)$, where

$$f_l(P) = \int_{D_0} \sum_{i=l+1}^{n+l} \lambda^i K_i(P, Q) f(Q) dQ. \quad (4)$$

Lemma 3: Let $f(P) \in E_s^\infty(C)$; then for $n = l+1$ the solution of the integral relationship (3) belongs to the class $E_l^\infty(M_l^{(n)})$ where $\alpha_l < (l+1)(\delta + s)/2s$ and M_l is independent of l . Theorem: Let that on the circumference $|z| = |\lambda|$ there is no one special point resolving relationship (1).

Then for $l \sim \sqrt{\ln N}$ and $N_1 \sim N^{2\alpha/(2\alpha + (\delta + s)\sqrt{\ln N})} / (\ln N)^{(\delta + s)/2}$, $N_2 \sim N^{(\delta + s)\sqrt{\ln N}/(2\alpha + (\delta + s)\sqrt{\ln N})} / (\ln N)^{-(7\alpha + 3)/2(\delta + s)}$, relationship (1) is

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satisfied by the equality $u[M_j(N)] = \tilde{\varphi}[M_j(N)] + f[M_j(N)] +$
 $+ \frac{1}{N} \sum_{k=1}^N \sum_{i=1}^l \lambda^i K_k[M_j(N), \tau(M_k(N), M_i(N))] / [\tau(M_k(N), M_i(N))] \times$
 $\times \prod_{t=1}^l \tau'_t \left[\left\{ \frac{a_{i,k}}{N} \right\}, \left\{ \frac{b_{i,t}}{N_1} \right\} \right] + O\left(\frac{1}{N^{a-\epsilon}}\right).$

where $\tau(M_k(N), M_i(N))$ is a point with coordinates $\tau\left[\left\{ \frac{a_{i,k}}{N} \right\}, \left\{ \frac{b_{i,t}}{N_1} \right\}\right]$, $i = 1, 2, \dots, l$,
and ϵ - any small positive number. The author expresses his thanks to N. M. Korobov
for his valuable observations and constant attention. Orig. art. has: 16 equations.

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